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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the

application:

LISTING OF CLAIMS:

1. (currently amended): A method of sending first and second signals to a plurality of

user equipments, the method comprising:

providing a dedicated channel for each one of the plurality of user equipments,

providing a code-multiplexed shared channel for the plurality of user equipments,

splitting the plurality of user equipments approximately substantially evenly into a

plurality of groups,

assigning an antenna of a set of antennas to each of the plurality of groups,

sending one of the first signals to one of the plurality of user equipments on one of the

dedicated channels on a carrier frequency by applying transmit diversity and simultaneously

sending one of the second signals on the code-multiplexed shared channel on the carrier

frequency by applying multi-user diversity through an antenna assigned to a group among the

plurality of groups which includes the one of the plurality of user equipments.

2. (previously presented): The method of claim 1, wherein the dedicated channel is a

DPCH type channel and the code-multiplexed shared channel is a HS-DSCH type channel of a

HSDPA type system.

3. (previously presented) The method of claim 1, further comprising:

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- assigning a carrier frequency of a set of at least first and second carrier frequen-

cies to each one of the dedicated channels,

- assigning a carrier frequency of the set of carrier frequencies to each one of the

plurality of user equipments.

4. (original) The method of claim 3, further comprising applying transmit diversity for

sending of the one of the second signals.

5. (previously presented) The method of claim 4, wherein closed loop transmit diversity

is applied.

6. (currently amended): A computer readable recording medium having tangibly stored

thereon a computer program for enabling a computer to control a sending of first and second

signals to a plurality of user equipments, the program comprising:

providing of a dedicated channel for each one of the plurality of user equipments,

providing of a code-multiplexed shared channel for the plurality of user equipments,

splitting the plurality of user equipments approximately substantially evenly into a

plurality of groups,

assigning of an antenna of a set of antennas to each of the plurality of groups,

sending of one of the first signals to one of the plurality of user equipments on one of the

dedicated channels on a carrier frequency by applying transmit diversity and simultaneously

sending one of the second signals on the code-multiplexed shared channel on the carrier

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frequency by applying multi-user diversity through an antenna assigned to a group among the

plurality of groups which includes the one of the plurality of user equipments.

7. (currently amended): A transmitter which sends first and second signals to a plurality

of user equipments, the transmitter comprising:

a first component which provides a dedicated channel for each one of the plurality of user

equipments,

a second component which provides a code-multiplexed shared channel to the plurality

of user equipments,

a third component which splits the plurality of user equipments approximately

substantially evenly into a plurality of groups,

a fourth component which assigns an antenna of a set of antennas to each of the plurality

of groups,

a fifth component which sends one of the first signals to one of the plurality of user

equipments on one of the dedicated channels on a carrier frequency by applying transmit

diversity,

a sixth component which sends one of the second signals to one of the plurality of user

equipments on the code-multiplexed shared channel on the carrier frequency by applying multi-

user diversity,

wherein the fifth component sends the one of the first signals simultaneous to the sixth

component sending the one of the second signals through an antenna assigned to a group among

the plurality of groups which includes the one of the plurality of user equipments.

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8. (previously presented): The transmitter of claim 7 further comprising scheduler which

provides the multi-user diversity.

9. (previously presented): The transmitter of claim 7 further comprising:

means for assigning a carrier frequency of a set of at least first and second carrier fre-

quencies to each one of the dedicated channels,

means for assigning of a carrier frequency of a set of carrier frequencies to each one of

the user equipments.

10. (currently amended): A telecommunication system for sending first and second

signals to a plurality of user equipments, the telecommunication system comprising:

a first component which provides a dedicated channel for each one of the plurality of user

equipments,

a second component which provides a code-multiplexed shared channel for the plurality

of user equipments,

a third component which splits the plurality of user equipments approximately

substantially evenly into a plurality of groups,

a fourth component which provides an antenna of a set of antennas to each one of the

plurality of groups,

a fifth component which provides one of the first signals to one of the plurality of user

equipments on one of the dedicated channels on a carrier frequency by applying transmit

diversity,

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a sixth component which provides one of the second signals to one of the plurality of user equipments on the code-multiplexed shared channel on the carrier frequency by applying multi-

user diversity,

wherein the fifth component provides the one of the first signals simultaneous to the sixth

component providing the one of the second signals through an antenna assigned to a group

among the plurality of groups which includes the one of the plurality of user equipments.

11. (canceled).